

Application No. 09/359,809
Amendment dated February 25, 2005
Response to September 10, 2004 Office communication

Amendments to the claims:

The listing of claims will replace all prior versions and listings of claims in the application.

Listing of Claims:

Claims 1-72 (canceled without prejudice of disclaimer)

Claim 73 (currently amended): A process for manufacturing a lubricant composition comprising a polymer where said polymer comprises a superabsorbent polymer that absorbs more than about 100 times its weight in water, by combining said polymer with a material for lubricating a surface wherein said material for lubricating a surface comprises:

(1) a lubricating metal and alloys thereof, lubricating metal oxide, halide, nitride, carbonate and phosphate, or carbon lubricant; or

(2) a silicate ester, polyphenyl ether, phosphate, chlorinated biphenyl, phenanthrene or phthalocyanine;

said material for lubricating a surface optionally comprising an, organic lubricant, inorganic lubricant, lubricant additive, or mixtures thereof said dispersion further comprising a material for decreasing friction.

Claim 74 (currently amended): A lubricant composition of matter comprising a product produced by the process of claim 73 forming a dispersion comprising a superabsorbent-

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~~polymer that absorbs more than about 100 times its weight in water, said dispersion further comprising a material for decreasing friction.~~

Claim 75 (currently amended): The lubricant product of claim 74 wherein said organic lubricant comprises a petroleum oil lubricant or grease thereof, a fatty oil, fatty acid, wax, synthetic oil lubricant or grease thereof, two-mol ethoxylate of isostearyl alcohol, a soap, a polymerized olefin, or an organic ester and wherein said composition optionally comprises a lubricant additive, or mixtures thereof.

Claim 76 (currently amended): A lubricant composition of matter comprising a product produced by the process comprising of forming a mixture comprising a polymer where said polymer comprises a superabsorbent polymer, said mixture further comprising a material for lubricating a surface decreasing friction, wherein said superabsorbent polymer absorbs more than about 100 times its weight in water and wherein said material for lubricating a surface decreasing friction comprises a solid lubricant comprising a metal alloy, an inorganic oxide, halide, nitride, carbonate, phosphate compound, carbon lubricant, or metal that provides barrier-layer lubrication, or mixtures thereof, and wherein said composition optionally comprises a lubricant additive.

Claim 77 (currently amended): The lubricant composition of claim 76, wherein said material for lubricating a surface solid lubricant comprises, molybdenum disulfide, cobalt chloride, antimony oxide, niobium selenide, tungsten disulfide, boron nitride, silver sulfate,

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cadmium chloride, cadmium iodide, cadmium oxide, borax, basic white lead, lead carbonate, lead monoxide, lead iodide, asbestos, talc, zinc oxide, zinc phosphate, iron phosphate, manganese phosphate, carbon, graphite, babbitt, bronze, brass, aluminum, gallium, indium, thallium, thorium, copper, silver, gold, mercury, lead, tin, indium, or the Group VIII noble metals or mixtures thereof.

Claim 78 (currently amended): The lubricant composition of claim 74 wherein said organic lubricant material for decreasing friction comprises a solid organic lubricant, and wherein said composition optionally comprises a lubricant additive.

Claim 79 (previously presented): The lubricant composition of claim 78, wherein said solid organic lubricant comprises a fluoroalkylene homopolymer or copolymer, a lower alkylene polyolefin homopolymer or co-polymer, a paraffinic hydrocarbon wax, phenanthrene, copper phthalocyanine, or mixtures thereof.

Claim 80 (currently amended): A lubricant composition of matter comprising a product produced by the process comprising of forming a mixture comprising a polymer where said polymer comprises a superabsorbent polymer, said mixture further comprising a material for lubricating a surface decreasing friction, wherein said superabsorbent polymer absorbs more than about 100 times its weight in water, and wherein said material for lubricating a surface decreasing friction comprises water containing a lubricant additive.

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Claim 81 (currently amended): A lubricant composition of matter comprising a product produced by the process comprising of forming a mixture comprising a polymer where said polymer comprises a superabsorbent polymer, said mixture further comprising a material for lubricating a surface decreasing friction, wherein said superabsorbent polymer absorbs more than about 100 times its weight in water, and wherein said material for lubricating a surface decreasing friction comprises an oil or greases thereof and water, and wherein said composition optionally comprises a lubricant additive.

Claim 82 (currently amended): A lubricant composition of matter comprising a product produced by the process comprising of forming a mixture comprising a polymer where said polymer comprises a superabsorbent polymer, said mixture further comprising a material for lubricating a surface decreasing friction, wherein said superabsorbent polymer absorbs more than about 100 times its weight in water, wherein said material for lubricating a surface decreasing friction comprises a solid lubricant and water, and wherein said composition optionally comprises a lubricant additive.

Claim 83 (currently amended): The lubricant composition of claim 82, wherein said solid lubricant comprises molybdenum disulfide, cobalt chloride, antimony oxide, niobium selenide, tungsten disulfide, boron nitride, silver sulfate, cadmium chloride, cadmium iodide, cadmium oxide, borax, basic white lead, lead carbonate, lead monoxide, lead iodide, asbestos, talc, zinc oxide, zinc phosphate, iron phosphate, manganese phosphate, carbon, graphite, babbitt, bronze, brass, aluminum, gallium, indium, thallium, thorium, copper, silver, gold,

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mercury, lead, tin, indium, the Group VIII noble metals, a fluoroalkylene homopolymer or copolymer, a lower alkylene polyolefin homopolymer or co-polymer, a paraffinic hydrocarbon wax, phenanthrene, copper phthalocyanine, or mixtures thereof.

Claim 84 (currently amended): A lubricant composition of matter comprising a product produced by the process comprising of forming a mixture comprising a polymer where said polymer comprises a superabsorbent polymer, said mixture further comprising a material for lubricating a surface decreasing friction, wherein said superabsorbent polymer absorbs more than about 100 times its weight in water, wherein said material for lubricating a surface decreasing friction comprises a phosphate, and wherein said composition optionally comprises a lubricant additive.

Claim 85 (currently amended): The lubricant composition of claim 84, wherein said material for lubricating a surface decreasing friction comprises tricresyl phosphate, zinc phosphate, iron phosphate or manganese phosphate, or mixtures thereof.

Claim 86 (currently amended): The lubricant composition of claim 74 wherein said organic lubricant material for decreasing friction comprises a fatty oil, fatty acid, or wax, or mixtures thereof, and wherein said composition optionally comprises a lubricant additive.

Claim 87 (currently amended): The lubricant composition of claim 74 wherein said organic lubricant material for decreasing friction comprises a synthetic oil lubricant, or grease thereof, and wherein said composition optionally comprises a lubricant additive.

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Claim 88 (currently amended): The lubricant composition of claim 74 wherein said organic lubricant material for decreasing friction comprises a soap, and wherein said composition optionally comprises a lubricant additive.

Claim 89 (previously presented): The composition of any one of claims 73-79, and 84-88 wherein said composition is substantially anhydrous.

Claim 90 (previously presented): The composition of any one of claims 73-88 wherein said superabsorbent polymer comprises a polymer of acrylic acid, an acrylic ester, acrylonitrile, acrylamide, co-polymers thereof or mixtures thereof.

Claim 91 (previously presented): The composition of any one of claims 75-88 wherein said lubricant additive comprises an antioxidant, rust inhibitor, antiwear compound, extreme pressure additive, detergent, dispersant, pour point depressant, viscosity-index improver, or foam inhibitor, or mixtures thereof.

Claim 92 (new): The composition of claim 75 wherein said organic lubricant comprises a petroleum oil lubricant or grease thereof.

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Claim 93 (new): The composition of claim 75 wherein said organic lubricant comprises a fatty oil.

Claim 94 (new): The composition of claim 75 wherein said organic lubricant comprises a fatty acid.

Claim 95 (new): The composition of claim 75 wherein said organic lubricant comprises a wax.

Claim 96 (new): The composition of claim 75 wherein said organic lubricant comprises a synthetic oil lubricant or grease thereof.

Claim 97 (new): The composition of claim 75 wherein said organic lubricant comprises a two-mol ethoxylate of isostearyl alcohol.

Claim 98 (new): The composition of claim 75 wherein said organic lubricant comprises a soap.

Claim 99 (new): The composition of claim 75 wherein said organic lubricant comprises a polymerized olefin.

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Claim 100 (new): The composition of claim 75 wherein said organic lubricant comprises an organic ester.